MILAN KACAR

Software & Survey Engineer

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EDUCATION

GYMNASIUM

📅 2010 - 2014 📍 Mrkonjic Grad, Bosnia and Herzegovina

BSc Geomatics Engineering
University of Technology, TU Graz

📅 2015 - 2019 📍 Graz, Austria

Master's Degree Programme - Geodesy
University of Technology, TU Graz

📅 2019-Present 📍 Graz, Austria

Master's Degree Programme - Computer Science
University of Technology, TU Graz

📅 2020-Present 📍 Graz, Austria

UNIVERSITY & PERSONAL PROJECTS

- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation for stocks considering different indexes (SP 500, Dow Jones, DAX etc.)
- LOTTO NUMBERS PREDICTOR - It was a try to predict lotto numbers for the next draw.
- SCIENTIFIC PAPER MINER - This project is GOOGLE for scientific papers.
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery.
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals.
- GRAVITY ANOMALY MAPS - GRACE misson.
- KALMAN FILTER · ADEVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation.
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects.

DISSERTATION WORK

BSc Thesis
Database for cycling routes

- Entity Relationship Diagram.
- Integration in the Database.
- Conversion from analog to digital maps.

MSc Thesis
PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- CapsNets for object detection - better performance then CNN.

LOOKING FOR

" To work in a progressive and dynamic organization where one could solve scientific enigmas and contribute towards welfare of society "

TECHNICAL STRENGTH

Python ●●●●●

C/C++ ●●●●●

GIS ●●●●●

Navigation ●●●●●

MATLAB ●●●●●

GNSS ●●●●●

Java ●●●●○

Signal Processing ●●●●○

PHP ●●●●○

Linux ●●●●○

Skala ●●●○○

LANGUAGES

Serbian | Croatian | Bosnian ●●●●●
German ●●●●●
English ●●●●○
Russian ●●○○○

STRENGTHS

Hard-working | Decision Making
Ability to Work Under Pressure
Motivator & Leader
Conflict Resolution | Time Management
Target oriented | Able to travel
Flexibility and Adaptability
Problem solver

WORK EXPERIENCE

Software Engineer
TU Graz

📅 Sep 2019 - Present　　　　📍 Graz, Austria

- Automation
- Statistics
- Geoinformatics
- Automotive industry

Survey Engineer
GEODATA

📅 July 2019 - December 2020　　📍 Semmering Basistunnel, Austria

- Tunnel surveying
- 3D Laser scanner measurements

HOBBIES

Reading
I love to read in my free time. My recommendation would be: The Power of Thinking Without Thinking

Sports Addict
At a young age I enjoyed playing tennis, but my interests changed - now I am more into Fitness and healthy food.

Travelling
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Four years later, I've traveled to more places during college than the first two decades of my life. My best travel experience was Indonesia in 2018.